



CATEGORY DEFINITION

Flap discs are versatile grinding and finishing tools, consisting of three main components: a backing plate, adhesive, and abrasive cloth flaps. The rectangular flaps are overlapped and glued to the backing plate. Flap discs are designed for right angle grinder applications ranging from heavy stock removal to surface blending.

APPLICATIONS:	Grinding, stock removal, edge chamfering/beveling, weld blending, deburring/deflashing, rust removal, blending, cleaning and finishing
SIZE RANGE:	4": 5/8" hole 4-1/2" - 7": 5/8"-11 discard mount and 7/8" hole
GRIT RANGE:	24 – 120
ABRASIVE GRAIN:	Ceramic Alumina, Zirconia Alumina, Aluminum Oxide, Silicon Carbide
ABRASIVE FLAPS:	Polyester or cotton
FLAP DISC SHAPE:	Type 27 Flat and Type 29 Conical
ABRASIVE FLAP DENSITY:	Standard or high
BACKING PLATE MATERIAL:	Fiberglass, plastic or aluminum

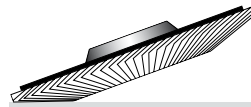
FLAP DISC SHAPES



GRIND AT FLATTER ANGLES:
0° – 15°

Type 27 Flat – The Best Choice for Finishing

- Used primarily on flat surfaces
- The best choice for blending and smooth finishing



GRIND AT STEEPER ANGLES:
15° – 25°

Type 29 Conical – The Best Choice for Aggressive Stock Removal

- Conical flap discs have angled flaps and may be used on both contoured and edge work
- The angle provides greater surface contact for stock removal on flat surfaces
- The best choice when speed and stock removal are primary considerations

ABRASIVE FLAP DENSITIES



Standard Density

- Excellent for heavy-duty applications and rapid stock removal

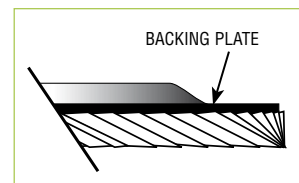


High Density

- Ideal when working on uneven or curved surfaces, as well as finer grit blending

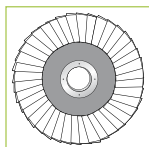
BACKING PLATE MATERIALS

All flap discs are a combination of abrasive flaps adhered to a rigid backing plate. It is the backing plate that provides stability during operation. There are three main materials used: fiberglass, plastic or aluminum. The fiberglass backing plate, along with the flap shape, helps to absorb vibration and is consumed during use with no smearing. Fiberglass is the most popular material because of its high strength and light weight. The plastic backing plate offers some additional conformability and is trimmable. The aluminum backing plate provides extra high strength and rigid support as needed. While not consumable during use, an aluminum plate can be recycled.



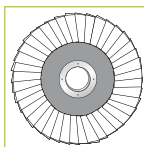
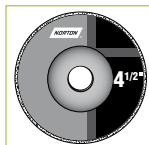
WHY CHOOSE FLAP DISCS?

Flap discs replace both grinding wheels and fiber discs. The same flap disc can be used for applications ranging from stock removal to blending.



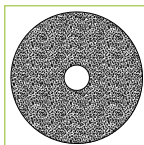
Flap Discs vs. Grinding Wheels

- Faster stock removal
- Smoother finish, no gouging
- Cooler cutting, less glazing
- Lightweight, easier to control
- Less vibration, less operator fatigue
- Reduced noise



Flap Discs vs. Fiber Discs

- 20X longer life, reduced abrasive cost
- Fewer disc changes, reduced labor cost
- More consistent finish
- No back-up pad required
- Easier storage, no curling
- Reduced loading
- Use flap discs one grit size coarser than fiber discs, except in 36 grit.





MATERIAL-TO-PRODUCT RECOMMENDATION GUIDE

BEST Highest Productivity – Lowest Total Cost	BETTER Excellent Blend of Performance & Price	GOOD Consistent Performance – Lowest Total Cost
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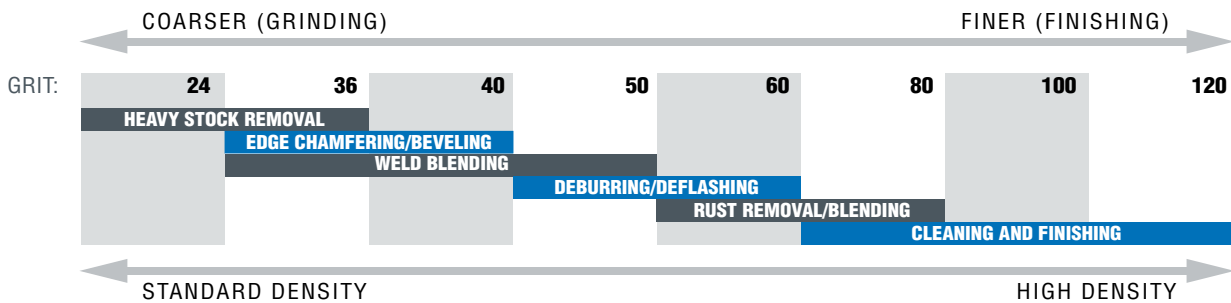
Type 29 for Stock Removal

Material	Best	Better	Good
Stainless Steel / Titanium / Super Alloys	Norton Blaze R980P	Norton BlueFire R884P	Merit Metal
Mild Carbon Steel / Welds	Norton Red Heat R961	Norton BlueFire R884P	Merit Metal
Ferrous Metals / Cast Iron	Norton Red Heat R961	Norton BlueFire R884P	Merit Metal
Brass / Bronze / Aluminum	–	Norton BlueFire R884P	Merit Silicon Carbide
Paint / Glue / Adhesive	–	–	Merit Silicon Carbide
Concrete / Stone / Fiberglass	–	–	Merit Silicon Carbide

Type 27 for Blending and Finishing

Material	Best	Better	Good
Stainless Steel / Titanium / Super Alloys	Norton Blaze R980P	Norton BlueFire R884P	Merit Metal
Mild Carbon Steel / Welds	Norton Red Heat R961	Norton BlueFire R884P	Merit Metal
Ferrous Metals / Cast Iron	Norton Red Heat R961	Norton BlueFire R884P	Merit Metal
Brass / Bronze / Aluminum	–	Norton BlueFire R884P	Merit Metal

APPLICATION/GRIT RECOMMENDATION GUIDE



CROSS REFERENCE GUIDE



	BEST		BETTER	GOOD	
	Blaze R980P	Red Heat R961	BlueFire R884P	Neon R766 Metal / Zirconia	Silicon Carbide
NORTON					
MERIT					
3M	947D	747D	563D, 546D	–	–
DeWalt	–	–	–	Z/A	–
Camel	–	C3	Z-Stainless	Z3, A3	SC
Flexovit	–	–	–	Zircotex Premium, Zircotex HP	–
Garryson	–	–	Zirc+, Zirconium	Aluminum Oxide	–
GemTex	–	Ceramic	–	Zirconia, A/O	–
Hermes	–	–	–	–	–
Klingspor	–	–	SMT 630	SMT 618, 619, 624, 626, 627, 628, 640	–
Metabo	–	–	–	Z/A	–
Pearl	–	Stainless Max	Zirconia Premium, TuffMax	Z/A Silver Line, Premium A/O Classic, Silver Line	SC
Pferd	–	Ceramic	Cool Zirconia, CO-COOL	Zirconia, Cool Aluminum Oxide, Aluminum Oxide	Masonry Silicon Carbide
Sait	–	–	Z	2A, 3A	–
SIA	–	–	–	Z/A	–
Standard	–	Ceramic Oxide	Zirconia Pro	Zirconia	–
Tyrolit	–	–	Z/A	A/O	–
Walter	–	–	Enduro Flex	–	–
Weiler	–	Saber Tooth Ceramic	–	Tiger Zirconium, A/O, Vortec	–



FEATURED PRODUCTS



NORTON BLAZE R980P

BEST/HIGHEST PRODUCTIVITY FOR STAINLESS STEEL, TITANIUM, AND SUPER ALLOYS

FEATURES	BENEFITS
■ Latest-generation ceramic alumina abrasive grain	■ Last 50% – 200% longer than any flap discs on stainless steel, cobalt, chrome, Inconel, titanium and other hard-to-grind materials
■ Supersize grinding aid	■ Cool, noticeably fast cut rate
■ Y-weight polyester flaps	■ Significantly improve life, grain retention and fray resistance
■ Durable fiberglass back	■ High strength, lightweight, absorbs vibration
■ Orange, flexible plastic backing plate on Type 27 Quick Trim	■ New industry standard for trimmability



NEW

NORTON RED HEAT R961

BEST/HIGH PRODUCTIVITY FOR MILD CARBON STEEL, AND FERROUS METALS

FEATURES	BENEFITS
■ New, premium ceramic and zirconia alumina abrasive blend	■ Excellent performance and efficiencies on mild carbon steel and ferrous metal/cast iron applications
■ Durable, fiberglass back (Type 29)	■ High strength, lightweight, absorbs vibration
■ Red, flexible plastic backing plate on Type 27 Quick Trim	■ New industry standard for trimmability



IMPROVED

NORTON BLUEFIRE R884P

BETTER CHOICE FOR MILD CARBON STEEL, AND WELD

FEATURES	BENEFITS
■ High performance zirconia alumina plus abrasive	■ Aggressive cut and long life
■ Polyester flaps	■ Up to 30% longer life than competitive zirconia alumina products
■ Semi-open coat	■ Improved durability
■ Durable, fiberglass back	■ Retards loading on aluminum
■ Blue, flexible plastic backing plate on Type 27 Quick Trim	■ High strength, lightweight, absorbs vibration
	■ New industry standard for trimmability



NEW

NORTON NEON R766

GOOD CHOICE FOR ALUMINUM, BRASS, BRONZE, STAINLESS, CARBON STEEL, AND TITANIUM

FEATURES	BENEFITS
■ Alternating aluminum oxide (green) and zirconia alumina (blue) flaps	■ Ideal when purchasing criteria is a good-performing, economically-priced, general purpose disc
■ New resin system and Y-wt. polyester flaps	■ Improved base adhesion and 30%+ improvement in life over key competitors' aluminum oxide flap discs
	■ Stand up on light- to moderately-demanding applications
■ New grain coating	■ Longer life and faster cut rate
■ Type 29, Type 27 HD; fiberglass back	■ High strength, lightweight, absorb vibration
■ Green, flexible plastic backing plate on Type 27 Quick Trim	■ New industry standard for trimmability



MERIT METAL

GOOD CHOICE FOR STAINLESS STEEL, CAST IRON, AND ALUMINUM

FEATURES	BENEFITS
■ Quality zirconia alumina abrasive	■ Good cut rate and life
	■ Type 29 for hard to grind materials; Type 27 for softer materials
■ Engineered blend of X-weight cotton and Y-weight polyester flaps	■ Longer life and wear resistance
■ Durable, fiberglass back	■ High strength, lightweight, absorbs vibration
■ Competitive initial price point	■ Best starting specification for end-user unable to measure performance



AVAILABILITY

TIER:	BEST	BEST	BEST	BEST	BEST
BRAND:	Norton	Norton	Norton	Norton	Norton
TRADENAME:	BLAZE R980P	BLAZE R980P	BLAZE R980P	RED HEAT R961	RED HEAT R961
SHAPE:	Type 27 Flat	Type 27 Flat	Type 29 Conical	Type 27 Flat	Type 29 Conical
FLAP DENSITY:	Standard	High	Standard	Standard	Standard
ABRASIVE:	Ceramic Alumina	Ceramic Alumina	Ceramic Alumina	Ceramic Alumina/ Zirconia Alumina	Ceramic Alumina/ Zirconia Alumina
BACKING PLATE:	Quick Trim Plastic	Fiberglass	Fiberglass	Quick Trim Plastic	Fiberglass
OTHER:	Supersize	Supersize	Supersize		

SIZE (D x H)	GRIT	MAX. RPM	STD. PKG	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
4 x 5/8	40	15,300	10				63642536153	
	60					63642536154		
	80					63642536155		
4-1/2 x 5/8-11	36	13,300	10		66254499894	66261183490	66623399163•	66623399053•
	40			66254400257	66261098290	66261183491	63642536147•	63642536156•
	60			66254400258	66261096435	66261183492	63642536148•	63642536157•
	80			66254400259	66261096436	66261183493	63642536149•	63642536158•
	120			66254400261			66623399164•	63642597115•
4-1/2 x 7/8	36	13,300	10		66261097678	66261183486	63642504876	63642504329
	40			66254400253	66261020628	66261183487	63642504877	63642504330
	60			66254400254	66261020633	66261183488	63642504878	63642504331
	80			66254400255	66261020634	66261183489	63642504879	63642504332
	120			66254400256			63642505279	63642504333
5 x 5/8-11	36	12,000	5				66623399165	66623399197
	40					66254491941	66623399198	
	60					66254491942	66623399199	
	80					66254491943	66623399200	
	120					66623399166	66623399201	
5 x 7/8	36	12,000	10			66261190001	63642505281	66623399054
	40			66254400262	66261190002	63642505282	66623399055	
	60			66254400264	66261190003	63642505283	66623399056	
	80			66254400265	66261190004	63642505284	66623399057	
	120			66254400519			63642505285	66623399202
6 x 5/8-11	40	10,200	5				66623399167	
	60					66623399168		
	80					66623399169		
6 x 7/8	40	10,200	10				66623399024	63642541406
	60					66623399025	63642541407	
	80					66623399026	63642541408	
	120					66623399027		
7 x 5/8-11	36	8,600	10			66261183498	66623399170•	66623399058•
	40			66254461066	66261183499	63642536150•	63642536159•	
	60			66254461067	66261183500	63642536151•	63642536160•	
	80			66254461068	66261183501	63642536152•	63642536161•	
	120			66254461069			66623399171•	66623399203•
7 x 7/8	36	8,600	10			66261183494	63642504880	63642504334
	40			66254461059	66261183495	63642504881	63642504335	
	60			66254461060	66261183496	63642504882	63642504336	
	80			66254461061	66261183497	63642504883	63642504337	
	120			66254461063			66623399172	63642504338

• 5/8-11 (HUBBED) RED HEAT FLAP DISC STD. PKG. QUANTITY = 5



New Trimmable, Flexible Plastic Backing Plate

Quick Trim Norton Blaze R980P and Norton Red Heat R961 Flap Discs

New higher-performance abrasive flaps are mounted on our new flexible, easily-trimmable plastic backing plate. To fully use the flaps, the new Quick Trim flap discs are the answer. Available in 7/8" hole or our industry standard 5/8-11 mini mount that ensures maximum safety for all right angle grinders.



AVAILABILITY

				BETTER	BETTER	GOOD	GOOD	GOOD
				Norton	Norton	Norton	Norton	Norton
				BLUEFIRE R884P	BLUEFIRE R884P	NEON R766	NEON R766	NEON R766
				Type 27 Flat	Type 29 Conical	Type 27 Flat	Type 27 Flat	Type 29 Conical
				Standard	Standard	Standard	High	Standard
				Zirconia Alumina Plus	Zirconia Alumina Plus	Aluminum Oxide/ Zirconia Alumina	Aluminum Oxide/ Zirconia Alumina	Aluminum Oxide/ Zirconia Alumina
				Quick Trim Plastic	Fiberglass	Quick Trim Plastic	Fiberglass	Fiberglass
SIZE (D x H)	GRIT	MAX. RPM	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.	PART NO.
4 x 5/8	36	15,300	10		66623399049			
	40			66623399050				
	60			66623399051				
	80			66623399052				
4-1/2 x 5/8-11	36	13,300	10	66623399136	66254461165	66623399125	66623399205	66623399028
	40			66623399137	66254461167	66623399000	66623399059	66623399029
	60			66623399138	66254461170	66623399001	66623399060	66623399030
	80			66623399139	66254461173	66623399002	66623399061	66623399173
	120				66623399003		66623399174	
4-1/2 x 7/8	24	13,300	10		66623399204			
	36			66623399140	66254461155	66623399126	66623399062	66623399032
	40			66623399141	66254461161	66623399004	66623399063	66623399033
	60			66623399142	66254461163	66623399005	66623399064	66623399034
	80			66623399143	66254461164	66623399006	66623399065	66623399035
	120					66623399007		66623399175
5 x 5/8-11	36	12,000	10	66623399144	66623399189	66623399127	66623399207	66623399176
	40			66623399145	66623399190	66623399128	66623399208	66623399177
	60			66623399146	66623399191	66623399130	66623399209	66623399178
	80			66623399147	66623399192	66623399131	66623399210	66623399179
	120				66623399132		66623399180	
5 x 7/8	24	12,000	10		66623399206			
	36			66623399148	66254461174	66623399133	66623399211	66623399036
	40			66623399149	66254461176	66623399008	66623399212	66623399037
	60			66623399150	66254461177	66623399009	66623399213	66623399038
	80			66623399151	66254461178	66623399010	66623399214	66623399039
	120					66623399011		66623399181
6 x 5/8-11	40	10,200	10				66623399219	66623399040
	60					66623399220	66623399041	
	80					66623399221	66623399042	
6 x 7/8	24	10,200	10		66623399066			
	36				66623399298		66623399215	
	40			66623399152	66623399193	66623399012	66623399216	66623399182
	60			66623399153	66623399194	66623399013	66623399217	66623399183
	80			66623399154	66623399195	66623399014	66623399218	66623399184
	120					66623399015		
7 x 5/8-11	36	8,600	10	66623399155	66254461188	66623399134	66623399222	66623399185
	40			66623399156	66254461190	66623399016	66623399067	66623399043
	60			66623399157	66254461192	66623399017	66623399068	66623399044
	80			66623399158	66254461193	66623399018	66623399069	66623399045
	120				66623399019		66623399186	
7 x 7/8	24	8,600	10		66623399196			
	36			66623399159	66254461180	66623399135	66623399070	66623399187
	40			66623399160	66254461183	66623399020	66623399071	66623399046
	60			66623399161	66254461185	66623399021	66623399072	66623399047
	80			66623399162	66254461186	66623399022	66623399073	66623399048
	120					66623399023		66623399188



AVAILABILITY

				GOOD	GOOD	GOOD	GOOD
TIER:				Merit	Merit	Merit	Merit
BRAND:				Metal	Metal	Zirconia	Silicon Carbide
TRADENAME:				Metal	Metal	Zirconia	Silicon Carbide
SHAPE:				Type 27 Flat	Type 29 Conical	Type 29 Conical	Type 29 Conical
FLAP DENSITY:				Standard	Standard	High	Standard
ABRASIVE:				Zirconia Alumina	Zirconia Alumina	Zirconia Alumina	Silicon Carbide
BACKING PLATE:				Fiberglass	Fiberglass	Fiberglass	Fiberglass
SIZE (D x H)	GRIT	MAX. RPM*	STD. PKG.	PART NO.	PART NO.	PART NO.	PART NO.
4-1/2 x 5/8-11	36	13,300	10	66254472655	66254419991	08834194447*	
	40			66254437013	66254419994	08834193906*	
	60			66254472656	66254419996	66261044504*	66254460664
	80			66254472657	66254419997	66261044505*	08834196277
	120					66261044506*	08834196275
4-1/2 x 7/8	24	13,300	10			08834194833*	
	36			66254472653	66254419963	08834191427*	
	40			66254437004	66254419978	08834190726*	
	60			66254448989	66254419984	08834190175*	66254460663
	80			66254448990	66254419987	08834190924*	08834195676
	120				08834190995*	08834195677	
5 x 7/8	36	12,000	10	66254472659	66254419998		
	40			66254472660	66254420001		
	60			66254472661	66254420002	08834190876	66254460694
	80			66254472662	66254420003	08834190405	66254460463
	120					08834192209	66254460464
6 x 5/8-11	40	10,200	10	66254491773	66254491779		
	60			66254491774	66254491780		
	80			66254491775	66254491781		
6 x 7/8	40	10,200	10	66254491770	66254491776		
	60			66254491771	66254491777		
	80			66254491772	66254491778		
7 x 5/8-11	36	8,600	10	66254472669	66254420009	08834193830	
	40			66254472670	66254420010	66261044540	
	60			66254472671	66254420012	08834199751	66254460666
	80			66254472672	66254420013	08834192896	08834197186
	120					66261044541	08834197187
7 x 7/8	24	8,600	10			08834190877	
	36			66254472664	66254420004	08834190878	
	40			66254472665	66254420006	08834192059	
	60			66254472666	66254420007	08834196985	66254460665
	80			66254472667	66254420008	08834196986	08834195705
	120				08834196988	66254460462	

* MAX RPM FOR MERIT ZIRCONIA HIGH DENSITY FLAP DISCS IS 13,000

When You Want Fast and Tough, You Want Norton

Whether you want maximum productivity or simply the lowest initial cost solution, Norton has the product for all your right angle grinding and blending applications.



BEST Norton Blaze

Highest Productivity – Lowest Total Cost

Latest-generation ceramic alumina abrasive provides the industry's fastest cutting discs and 50-200% longer life over any flap disc on stainless, titanium, and super alloys.



BETTER Norton BlueFire

Exceptional Blend of Performance and Price

New zirconia alumina plus abrasive for an increased cut rate and up to 30% longer life over conventional zirconia products on carbon steel and welds.



GOOD Norton Neon

Good Performance – Low Initial Price

30%+ life vs. competitive aluminum oxide products. Ideal for soft metals to hard-to-grind stainless and carbon steel – and light-to-moderately-demanding applications



NorZon 20X High Performance

- Zirconia alumina abrasive disc, packaged for retail/walk-in selling
- Individual hang card provides product selling points
- Product ships in merchandisable display case of small quantities



TIER: **BEST**

BRAND: Norton

TRADENAME: **NORZON 20X**

SHAPE: Type 29

FLAP DENSITY: Standard

ABRASIVE: Zirconia Alumina Plus

BACKING PLATE: Fiberglass

SIZE (D x H)	GRIT	MAX. RPM	STD. PKG.	PART NO.
4 x M-10	40	15,300	5	07660703214
	60			07660703215
	80			07660703216
4-1/2 x 5/8-11	40	13,300	5	07660703211
	60			07660703212
	80			07660703213
7 x 5/8-11	40	8,600	5	07660703205
	60			07660703206
	80			07660703207
Wire Rack			2	07660704157

Wire rack (with header card) allows merchandising of 4" and 4-1/2" product three ways: hung on pegboard, mounted on an upright, or placed on a shelf/counter



Merit Mini Flap Discs



- High performance zirconia alumina abrasive provides maximum cut rate and life
- Layered flaps wear away evenly, producing a high quality and consistent finish

AVAILABILITY

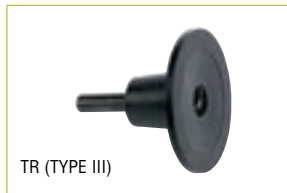
TIER:	BETTER	BETTER
ABRASIVE:	Zirconia Alumina	Zirconia Alumina
FLAP:	Cotton	Cotton
BACKING MATERIAL:	Extra Heavy Duty Plastic	Extra Heavy Duty Plastic
ATTACHMENT:	TS (Type II)	TR (Type III)



SIZE (D)	GRIT	STD. PKG.	PART NO.	PART NO.
2"	36	10	08834195020	08834194550
	40		08834195021	08834194551
	60		08834195022	08834194552
	80		08834195023	08834194553
	120		08834195024	08834194554
3"	36	10	08834195035	08834194563
	40		08834195036	08834194564
	60		08834195037	08834194565
	80		08834195038	08834194566
	120		08834195039	08834194567



TS (TYPE II)



TR (TYPE III)

DESCRIPTION	STD. PKG.	MAX. RPM	PART NO.
Mini Flap Disc Back-up Pads			
2" & 3" TS (Type II) Back-up Pads	1	30,000	08834168539
2" & 3" TR (Type III) Back-up Pads	1	30,000	08834160172